

Vehicle parking control equipment —

Part 3: Specification for pay and display equipment

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The preparation of this British Standard was entrusted by the Road Engineering Standards Policy Committee (RDB/-) to Technical Committee RDB/29, upon which the following bodies were represented:

- Association of London Authorities
- Association of Metropolitan Authorities
- Automobile Association
- British Parking Association
- Chartered Institute of Public Finance and Accountancy
- Department of Transport
- Institution of Civil Engineers
- Institution of Highways and Transportation
- Joint Committee on Mobility for the Disabled
- London Boroughs Association
- Metropolitan Police
- Royal Automobile Club
- Coopted members

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Foreword

This Part of BS 6571 has been prepared under the direction of the Road Engineering Standards Policy Committee.

Other Parts of this standard are as follows:

- *Part 1: Specification for coin operated clockwork parking meters;*
- *Part 2: Specification for electrically powered parking meters;*
- *Part 4: Specification for barrier type parking control equipment¹⁾;*
- *Part 5: Guide to the requirements for non-coin operated apparatus for use with parking control equipment¹⁾.*

Further Parts are under consideration.

Whilst it is not within the scope of this standard, attention is drawn to the guidance of the Design Council on the aesthetic qualities of street furniture.

A British Standard does not purport to include all the necessary provisions of a contract. Users of British Standards are responsible for their correct application.

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Summary of pages

This document comprises a front cover, an inside front cover, pages i and ii, pages 1 to 14, an inside back cover and a back cover.

This standard has been updated (see copyright date) and may have had amendments incorporated. This will be indicated in the amendment table on the inside front cover.

¹⁾ In preparation.

1 Scope

This Part of BS 6571 specifies the requirements for the design and construction of electrically operated “pay and display” parking control equipment. It covers equipment designed to accept coins, tokens or devices and to print and issue tickets or receipts for display from inside vehicles to indicate a period of paid parking. It does not include requirements for corrosion resistance or vandal resistance.

NOTE 1 This equipment may be linked to, and operated in conjunction with, rising arm or rising kerb barrier systems in accordance with BS 6571-4 (in preparation) which also includes requirements for “pay on foot” systems.

NOTE 2 The titles of the publications referred to in this standard are listed on the inside back cover.

2 Definitions

For the purposes of this Part of BS 6571, the following definitions apply.

2.1 accuracy of timing

a period in minutes over a course of consecutive days in respect of the real time control

2.2 real time control

a device to establish chronological time within the equipment for the purpose of visibly displaying current time in hours and minutes

NOTE The real time control may also be used to a) establish and display expiry time in hours and minutes, or b) give the capability to switch the meter's tariff regime according to predetermined schedules, or c) give the capability to switch the meter's maximum purchase time according to predetermined schedules, or d) establish and display or indicate the current month or day of the week or both, or e) any combination of a), b), c) and d).

2.3 coin/token acceptance

a function involving the correct operation of the equipment as a result of the insertion of a valid coin or coins or a token or tokens of specified dimensions, composition and tolerance

2.4 valid coin

any coin issued by the Royal Mint for use in the United Kingdom of a denomination approved by the operator

NOTE The permissible degree of wear can be up to 0.2 mm below the minimum minted diameter of the coin.

2.5 device acceptance

a function involving the correct operation of the equipment as a result of the correct use of a valid device

2.6 temperature range

the upper and lower limit of temperature in degrees Celsius, within which the equipment will operate

2.7 ticket issue

the production of a printed ticket on completion of a coin/token acceptance or device acceptance or a combination of both

2.8 minimum audit facility

a means of indicating the totals and/or value of coins or tokens deposited in the cash box and the total of payments by any device

2.9 deferred period purchase

a ticket issuing function related to a period of controlled parking commencing at a future time

2.10 optional tariff selection

the selection of a separate tariff approved by the equipment operator for a specified category of user

NOTE This facility can be used to control coach parking, residents parking or other defined category.

2.11 alternative tariff selection

the automatic selection of the tariff regime in accordance with the predetermined schedules approved by the equipment operator

NOTE This facility can be used to introduce different tariffs on different days of the week or at different hours of the day.

2.12 tariff

the amount charged for a specified period of time

3 General requirements

3.1 The equipment shall be electrically operated from an external or internal power source.

3.2 The equipment shall include the following features:

- a) coin/token acceptance unit or device acceptance unit or both;
- b) security coin/token box where a coin/token acceptance unit is fitted;
- c) real time control;
- d) real time display;
- e) a payment and/or expiry time and/or purchased period display which is/are permitted to temporarily utilize the real time display in conjunction with other indicators;
- f) minimum audit facility;

- g) ticket issuing unit which can be either manually or automatically activated;
- h) coin/token reject control, where a coin/token acceptance unit is fitted.

NOTE The following additional features may be provided where required by the purchaser or at the option of the manufacturer:

- 1) expanded audit facility;
- 2) alarm system;
- 3) a separate payment display and/or expiry time display and/or purchase period display;
- 4) change giving unit;
- 5) optional tariff selection unit.

3.3 The equipment shall be capable of being securely mounted on a pedestal, on a post or posts, on a plinth, or on the surface of a wall.

NOTE A pedestal may either be an integral part of the equipment or be provided separately.

3.4 The equipment shall be arranged so that:

- a) all variable displays are located between 1.30 m and 1.70 m above surrounding ground level;
- b) all information and instruction plates affixed to the meter are located between 1.00 m and 1.80 m above the surrounding ground level;
- c) all coin/token or device acceptance external features and associated external controls are located between 1.00 m and 1.40 m above surrounding ground level;
- d) any mounting plinth shall not protrude more than 200 mm beyond the front face of the meter.

3.5 The fastenings used for fixing the equipment to its mounting shall be accessible only from within a lockable housing.

3.6 External push buttons shall be not less than 20 mm effective diameter.

3.7 External manual rotary controls shall be not less than 50 mm effective diameter.

3.8 The equipment and cash box housing shall be of sheet-steel of welded construction with a minimum thickness of 2 mm or of material and construction of equivalent mechanical strength and security.

3.9 Locks shall provide a system of security not less than that obtained from a multi-tumbler type of lock.

NOTE The precise system of locking is not specified in this standard but should be agreed between the purchaser and the manufacturer. In this connection, attention is drawn to the possible use of selected key systems.

The key(s) used to gain access to the internal equipment shall not allow entry into the security coin/token box without the use of a further key.

3.10 Windows shall be manufactured either from toughened safety glass complying with BS 857 or from plastics safety glazing material complying with categories C or G in clause 4 of BS AU 182:1982.

4 Standard colour of equipment

4.1 On-street equipment

The colour of the external casing for on-street equipment shall comply with one of the following standard colours of BS 381C:

- 631 Light grey
- 226 Middle Brunswick green
- 106 Royal blue
- 210 Sky
- 388 Beige
- 436 Dark camouflage brown
- 320 Light brown
- 109 Middle blue
- 217 Sea green
- 627 Light aircraft grey (or anodized aluminium approximately to this colour)

4.2 Off-street equipment

The colour of the external casing for off-street equipment shall be either one of the colours specified in 4.1 or one of the following standard colours of BS 381C:

- 568 Apricot
- 557 Light orange

5 Electrical requirements

5.1 External power source

5.1.1 Equipment supplied from an external power source shall operate at voltages up to 25 V a.c.r.m.s. 50 Hz or up to 60 V ripple free d.c. Anti-condensation heaters may operate at a higher voltage, not exceeding the supply voltage.

5.1.2 All wiring and protective devices shall be in accordance with appropriate Institution of Electrical Engineers (IEE) Wiring Regulations and relevant British Standards.

5.1.3 The equipment shall be fitted with a labelled isolating switch to disconnect the external power source. Every individual circuit shall be capable of being isolated from the live supply.

5.1.4 All items of metalwork within the equipment and mounting arrangement shall be bonded together and earthed in accordance with the recommendations in CP 1013.